## Claims

What is claimed is:

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- 1. A system for providing data communication between a plurality of electronic modules connected to an I<sup>2</sup>C<sup>M</sup>-bus, wherein said plurality of electronic modules each are adapted to communicate a data package comprising in a layered structure a physical layer complying with I<sup>2</sup>C<sup>M</sup>
   specifications, a data link layer comprising first header field for data payload type and a second header field for a data link layer version, and a network/transport layer comprising a third header field for a transmitting electronic module's address, a
   fourth header field for a length of said data package, and comprising data payload.
- A system according to claim 1, wherein said electronic modules comprise a mobile communication
   device such as a cell, mobile or satellite telephone, a personal digital assistant, or peripherals thereto.
- A system according to claim 1, wherein said data payload type comprises OBEX, TCP, IP, HTTP, or any proprietary payload type.
  - 4. A system according to claim 1, wherein said data link layer version comprises a major version, which is binary incompatible, and a minor version, which is binary compatible.
  - 5. A system according to claim 1, wherein said data package further comprises in said network/transport

layer a fifth header field for an offset value for determination of data payload start in said data package.

- 5 6. A system according to claim 1, wherein said data package further comprises in said network/transport layer a sixth header field prior to said data payload start in said data package for buffering.
- 10 7. A system according to claim 1, wherein said data package further comprises a checksum field following the data payload.
- 8. A system according to claim 1, wherein said datapackage further comprises in said network/transportlayer a seventh header field for a data package number.
- A system according to claim 1, wherein said data package further comprises in said network/transport
   layer an eighth header field for a data package fragment sequence number.
- 10. A data package for communicating between a plurality of electronic modules connected to an I²C™25 bus, wherein said data package comprising in a layered structure physical layer data complying with I²C™ specifications, data link layer data in a first header field comprising data payload type and in a second header field comprising a data link layer version, and network/transport layer data in a third header field comprising a transmitting electronic module's address, in a fourth header field comprising a length of said data package, and comprising data payload.

- 11. A data package according to claim 10 further comprising in said network/transport layer a fifth header field for an offset value for determination of data payload start in said data package.
- 12. A data package according to claim 10, wherein said data payload type comprises OBEX, TCP, IP, HTTP, or any proprietary payload type.

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13. A data package according to claim 10 further comprising in said network/transport layer a sixth header field prior to said data payload start in said data package for buffering.

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- 14. A data package according to claim 10 further comprising a checksum field following the data payload.
- 15. A data package according to claim 10 further
  20 comprising in said network/transport layer a seventh
  header field for a data package number.
  - 16. A data package according to claim 10 further comprising in said network/transport layer an eighth header field for a data package fragment sequence number.
    - 17. A receiver unit adapted to receive a data package according to claim 10.

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18. A transmitter unit adapted to transmit a data package according to claim 10.

19. A method for establishing data communication between a plurality of electronic modules connected to an I²C™-bus, wherein said plurality of electronic modules each communicate a data package comprising in a layered structure a physical layer complying with I²C™ specifications, and wherein said method comprising providing in said data package in a data link layer a first header field for data payload type and a second header field for a data link layer version, providing in said data package in a network/transport layer a third header field for a transmitting electronic module's address and a fourth header field for a length of said data package, and providing in said data package a data payload.

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20. A computer program comprising code adapted to perform the following steps when said program is run in a data processor adapted to establish data communication between a plurality of electronic modules connected to an  $I^2C^{\mathbb{I}}$ -bus, wherein said plurality of 20 electronic modules each communicate a data package comprising in a layered structure having a physical layer complying with I<sup>2</sup>C<sup>™</sup> specifications, and wherein said program providing in said data package in a data 25 link layer a first header field for data payload type and a second header field for a data link layer version, providing in said data package in a network/transport layer a third header field for a transmitting electronic module's address and a fourth header field for a length of said data package, and 30 providing in said data package a data payload.